

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

① a)  $\frac{1}{33} : \frac{1}{21} =$

b)  $\frac{2}{11} : \frac{7}{44} =$

c)  $\frac{16}{19} : \frac{4}{5} =$

d)  $\frac{1}{3} : \frac{22}{45} =$

② a)  $\frac{2}{7} : \frac{8}{17} =$

b)  $\frac{5}{44} : \frac{1}{11} =$

c)  $\frac{3}{25} : \frac{3}{31} =$

d)  $\frac{1}{18} : \frac{5}{12} =$

③ a)  $\frac{1}{7} : \frac{11}{28} =$

b)  $\frac{2}{5} : \frac{7}{20} =$

c)  $\frac{3}{22} : \frac{1}{8} =$

d)  $\frac{2}{3} : \frac{14}{15} =$

④ a)  $\frac{1}{10} : \frac{9}{25} =$

b)  $\frac{8}{11} : \frac{4}{11} =$

c)  $\frac{13}{14} : \frac{3}{4} =$

d)  $\frac{1}{12} : \frac{2}{21} =$

⑤ a)  $\frac{5}{36} : \frac{1}{16} =$

b)  $\frac{9}{32} : \frac{3}{11} =$

c)  $\frac{1}{13} : \frac{6}{13} =$

d)  $\frac{4}{5} : \frac{8}{21} =$

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

$$\textcircled{1} \quad \text{a) } \frac{1}{33} : \frac{1}{21} = \frac{1}{33} \cdot \frac{21}{1} = \frac{1 \cdot 7}{11 \cdot 1} = \frac{7}{11} \quad \text{b) } \frac{2}{11} : \frac{7}{44} = \frac{2}{11} \cdot \frac{44}{7} = \frac{2 \cdot 4}{1 \cdot 7} = 1 \frac{1}{7}$$

$$\text{c) } \frac{16}{19} : \frac{4}{5} = \frac{16}{19} \cdot \frac{5}{4} = \frac{4 \cdot 5}{19 \cdot 1} = 1 \frac{1}{19} \quad \text{d) } \frac{1}{3} : \frac{22}{45} = \frac{1}{3} \cdot \frac{45}{22} = \frac{1 \cdot 15}{1 \cdot 22} = \frac{15}{22}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{7} : \frac{8}{17} = \frac{2}{7} \cdot \frac{17}{8} = \frac{1 \cdot 17}{7 \cdot 4} = \frac{17}{28} \quad \text{b) } \frac{5}{44} : \frac{1}{11} = \frac{5}{44} \cdot \frac{11}{1} = \frac{5 \cdot 1}{4 \cdot 1} = 1 \frac{1}{4}$$

$$\text{c) } \frac{3}{25} : \frac{3}{31} = \frac{3}{25} \cdot \frac{31}{3} = \frac{1 \cdot 31}{25 \cdot 1} = 1 \frac{6}{25} \quad \text{d) } \frac{1}{18} : \frac{5}{12} = \frac{1}{18} \cdot \frac{12}{5} = \frac{1 \cdot 2}{3 \cdot 5} = \frac{2}{15}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{7} : \frac{11}{28} = \frac{1}{7} \cdot \frac{28}{11} = \frac{1 \cdot 4}{1 \cdot 11} = \frac{4}{11} \quad \text{b) } \frac{2}{5} : \frac{7}{20} = \frac{2}{5} \cdot \frac{20}{7} = \frac{2 \cdot 4}{1 \cdot 7} = 1 \frac{1}{7}$$

$$\text{c) } \frac{3}{22} : \frac{1}{8} = \frac{3}{22} \cdot \frac{8}{1} = \frac{3 \cdot 4}{11 \cdot 1} = 1 \frac{1}{11} \quad \text{d) } \frac{2}{3} : \frac{14}{15} = \frac{2}{3} \cdot \frac{15}{14} = \frac{1 \cdot 5}{1 \cdot 7} = \frac{5}{7}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{10} : \frac{9}{25} = \frac{1}{10} \cdot \frac{25}{9} = \frac{1 \cdot 5}{2 \cdot 9} = \frac{5}{18} \quad \text{b) } \frac{8}{11} : \frac{4}{11} = \frac{8}{11} \cdot \frac{11}{4} = \frac{2 \cdot 1}{1 \cdot 1} = 2$$

$$\text{c) } \frac{13}{14} : \frac{3}{4} = \frac{13}{14} \cdot \frac{4}{3} = \frac{13 \cdot 2}{7 \cdot 3} = 1 \frac{5}{21} \quad \text{d) } \frac{1}{12} : \frac{2}{21} = \frac{1}{12} \cdot \frac{21}{2} = \frac{1 \cdot 7}{4 \cdot 2} = \frac{7}{8}$$

$$\textcircled{5} \quad \text{a) } \frac{5}{36} : \frac{1}{16} = \frac{5}{36} \cdot \frac{16}{1} = \frac{5 \cdot 4}{9 \cdot 1} = 2 \frac{2}{9} \quad \text{b) } \frac{9}{32} : \frac{3}{11} = \frac{9}{32} \cdot \frac{11}{3} = \frac{3 \cdot 11}{32 \cdot 1} = 1 \frac{1}{32}$$

$$\text{c) } \frac{1}{13} : \frac{6}{13} = \frac{1}{13} \cdot \frac{13}{6} = \frac{1 \cdot 1}{1 \cdot 6} = \frac{1}{6} \quad \text{d) } \frac{4}{5} : \frac{8}{21} = \frac{4}{5} \cdot \frac{21}{8} = \frac{1 \cdot 21}{5 \cdot 2} = 2 \frac{1}{10}$$